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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,862	08/19/2003	Patrick J. Phillips	2003P08375US	6342
7590	10/05/2005			
Siemens Corporation Intellectual Property Department 170 Wood Avenue South Iselin, NJ 08830				EXAMINER IMAM, ALI M
				ART UNIT 3737 PAPER NUMBER

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	
	10/644,862	PHILLIPS ET AL.	
	Examiner Ali Imam	Art Unit 3737	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 07/13/2005 (Amendment).
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-31 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-3,6-9,12,15-19,22-25 and 28-30 is/are rejected.
 7) Claim(s) 4,5,10,11,13,14,20,21,26,27 and 31 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Response to Amendment

1. In response to the amendment filed 07/13/2005, all necessary changes to the claims and specification have been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-3, 6-9, 12, 15-19, 22-25, and 28-30 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-3, 6-9, 12, 15-19, 22-25, and 28-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Rhyne (US 6,010,456).

Rhyne teaches in Fig. 2 and col. 5, a method and system for setting parameters for contrast agent medical imaging comprising the steps and structures for setting a transmit level (24) and using a master controller (42) for automatically selecting a setting for at least one contrast agent imaging parameter as a function of the transmit level wherein the parameter that is selected is transmit detection technique (see items 22, 32 and 34). Rhyne teaches that the transmit sequence memory (22) selects the transmit coding and the detection technique decodes or equalizes via the switches (32) for contrast agent imaging.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 1-3, 6-9, 12, 15-19, 22-25, and 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamiyama et al. (US 5,873,829). Kamiyama teaches in Fig. 5 and cols. 6-12, a system and method for contrast agent imaging using two different modes, Harmonic and Normal B modes wherein the transmit parameters are different for each modes. Kamiyama further teaches that the system's scanning unit controls the scan so that the beam signal is canned automatically and alternately for each raster in both the normal B-mode and the harmonic-mode (abstract). Therefore, it would have been obvious to an ordinary skill in the art at the time the invention was made to recognize that when transmit level is selected, the bandwidths and modulation frequencies and number of waves in a sequence are also automatically set in responsive to the selection.

8. The following reference also rejects claims 1-3, 6-9, 12, 15-19, 22-25, and 28-30 under 35 U.S.C. 103(a).

Brock-Fisher et al. (US 5,577,505) teaches in see Fig. 1, a system and method for increasing sensitivity in non-linear ultrasound contrast agent imaging. In view of items 18 and 20, it can be argued that when the transmit voltage is increased from V1 to V2 to emphasize contrast agent, the receive gain is decreased from 1 to V1/V2. This is then a “reduced gain” detection technique which differs from the unreduced gain technique.

Allowable Subject Matter

9. Claims 4, 5, 10, 11, 13, 14, 20, 21, 26, 27, and 31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Imam whose telephone number is 571-272-4737. The examiner can normally be reached on Mon. - Th., 8:00- 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3737

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Ali Imam
Primary Examiner
Art Unit 3737

AI
10/3/5